

Application No. 10/630,481  
Response to Office Action

Customer No. 01933

Listing of Claims:

Claims 1-8 (Canceled).

9. (New) An electronic circuit comprising:

an integrated circuit having a power supply terminal;

a transmission line type noise filter disposed adjacent to  
the integrated circuit for removing noise in a wide frequency

5 range; and

a printed board having a pattern through which power is  
supplied to the power supply terminal of the integrated circuit  
through the transmission line type noise filter;

wherein the transmission line type noise filter comprises:

10 an anode member comprising a valve-action metal;

a dielectric film comprising an oxidized film of the  
valve-action metal;

a conductive layer including a solid electrolyte layer  
as a cathode disposed over the dielectric film; and

15 first and second anode terminals at respective ends of  
the anode member;

wherein the printed board comprises a power line layer  
having a power supply pattern which includes a first power supply  
line and a second power supply line which are electrically

20 separated, and wherein the power line layer is provided in a

Application No. 10/630,481  
Response to Office Action

Customer No. 01933

different plane from a mounting surface of the transmission line type noise filter and the integrated circuit; and

wherein the transmission line type noise filter is electrically connected at the first anode terminal thereof to the first power supply line, which is electrically connected to the power supply terminal of the integrated circuit, and wherein the transmission line type noise filter is electrically connected at the second anode terminal thereof to the second power supply line, which is electrically connected to a DC power supply.

10. (New) An electronic circuit as claimed in claim 9, wherein the integrated circuit has an additional power supply terminal, the power supply pattern of the power line layer has an additional first power supply line and an additional second power supply line, and an additional transmission line type noise filter is arranged between the additional first power supply line and the additional second power supply.

11. (New) An electronic circuit as claimed in claim 9, wherein the integrated circuit includes an additional power supply terminal, the first power supply line of the power line layer has a branched power supply line, and the additional power supply terminal of the integrated circuit is connected to the branched power supply line.

Application No. 10/630,481  
Response to Office Action

Customer No. 01933

12. (New) An electronic circuit as claimed in claim 9,  
wherein in the transmission line type noise filter:

the anode member comprises a metal fine wire made of the  
valve-action metal, and a sintered body which is formed on the  
5 metal fine wire and is made of the valve-action metal;

the dielectric film is formed on a surface of the sintered  
body;

the solid electrolyte layer is formed on a surface of the  
dielectric film;

10 the conductor layer includes a conductive layer formed on a  
surface of the solid electrolyte layer;

the first and second anode terminals are connected  
respective ends of the metal fine wire; and

a cathode electrode is connected to the conductor layer.

13. (New) An electronic circuit as claimed in claim 12,  
wherein the sintered body is formed by press-molding a powder of  
the valve-action metal, and then sintering the press-molded  
powder in a vacuum at a predetermined temperature.

14. (New) An electronic circuit as claimed in claim 12,  
wherein the sintered body is formed by winding a green sheet,  
formed from slurry including a powder of the valve-action metal,

Application No. 10/630,481  
Response to Office Action

Customer No. 01933

around the metal fine wire as a core, and then sintering the  
5 green sheet wound around the metal fine wire in a vacuum at a  
predetermined temperature.

15. An electronic circuit as claimed in claim 9, wherein in  
the transmission line type noise filter:

the anode member comprises an aluminum etched foil;

the dielectric film comprises an anode oxidized film formed  
5 on a predetermined part of the aluminum etched foil;

the conductive layer comprises a conductive high molecular  
compound layer formed on the anode oxidized film; and

a graphite and silver paste layer is formed on the  
conductive high molecular compound layer.